Bluetooth FAQ for mk5-mk6-mk7 VW Golf, Jetta, JSW: 9w2, 9w3, 9w7 modules

Introduction

Bluetooth is a wireless connection that lets you connect your cell phone to your car. After they're connected, you can listen to the call over the car speakers and speak through a microphone built in-to the car. There are 4 types of OEM bluetooth for mk5 and newer cars: Volk, 9w2, 9w3, and 9w7. This article separates procedures according to bluetooth type and if you have the RNS 510 navigation system. In the US, the 2010 Golf TDI and 2010 Jetta wagon TDI get 9w2 low bluetooth standard. The 2010 Jetta sedan TDI gets 9w3 high bluetooth standard. Early Canadian wagons did not get any bluetooth from the factory. All US bluetooth 2011 and later will be 9w7

Lowline MFD is the half screen. MFD+ or MFI+ (same thing, different names) is the highline full screen instrument cluster display. Up to 2009 mk5 cars had red displays and 2010 and later had white displays. Bluetooth compatibility depends on whether your car uses mk5 electronics (red display) or mk6 electronics (white display).

Bluetooth type on VW Jetta, Golf, Sportwagen, and Touareg TDI

Volk-L bluetooth from Jetta or Golf

Volk-L was a dealer installed (instead of factory installed) bluetooth module behind the radio. You'll mostly find these on 2005.5-2008 models. The later models are all factory installed and under the passenger seat. Pictures of the various types are below.

This is only talk and receive. You cannot place outgoing phone calls or show phone book capability in the MFD (the highline multifunction display on the instrument cluster). This was an option on earlier TDI. It does not interface with the VW RNS 510 GPS nav system. Some part numbers are

1k0 051 437, 1k8 035 730, 1k8 051 730 a (1k8 035 730a), and 1k8 035 730 b (1k8035730b, for 2009). They used to have a dedicated website but it's no longer online. Installation instructions are here: Volk-L installation instructions. There are more tips at the article 1000q: E-MFA and radio removal. Here is a compatibility chart for the Volk-L and user manual.

9w2 bluetooth from Jetta, Golf, or Sportwagen (wagon) TDI

9w2 bluetooth lets you talk and receive but there is no phone book capability. You can still use voice control through your mobile phone to place outgoing calls, if equipped. It also has A2DP (bluetooth streaming music capability). An example of A2DP is wirelessly playing music directly from your iphone over the stereo. These were commonly found on 2010 and newer Golf and sport wagon (sportwagen).

When combined with the RNS 510 GPS it does not display the phonebook over the touchscreen display.

Some part numbers for the 2010+ (white MFD) are 1k8 035 730 c (1k8035730c) and 1k8 035 730 d (1k8035730d)

The bluetooth antenna is internal.

9w3 bluetooth from Jetta sedan TDI or VW Touareg TDI

This lets you talk, receive, has phone book, place outgoing calls, and has voice control. It does not support A2DP. All Jetta TDI sedans 2010 and newer in the US have it. It also has more options for audio settings than 9w2. Most didn't have the correct coding to show the phone book over the MFD. If you don't have this option, use the procedure shown below to change the coding and the phone book menu will show up in the MFD. Since they are new cars the dealer should have set this for you. The procedure to do this yourself is below. This will not work with 2009 and earlier since their module was a different version (for red MFD only).

These were commonly found on 2009-2010 Jetta and Touareg. An example is shown right, under the passenger seat. It uses bolts because it has an external antenna which could be broken off.

You can retrofit 9w3 to 2010 VW Jetta wagons and Golf equipped with 9w2. If you have a white MFD+ display and gauges (2010 and newer, examples are below) you can only use modules which are compatible with a white display. If you have a red MFD+ like the above picture (2009 and earlier) you can only use a module which came on red display cars.

When equipped with RNS 510 GPS navigation system 9w3 displays the phone book over the GPS display for dialing from the touchscreen.

When equipped with RCD 510 touchscreen radio 9w3 does not display the phone book over the radio display. You may see pictures of this because European units can do this. North American units cannot.

The part number for red MFD only are # 1z0 035 729 b (1z0035729b). If you have an rSAP phone, the part number is # 5n0 035 730 b (5n0035730b). (rSAP is allows devices such as car phones with built in GSM transceivers to connect to a SIM card in a phone with Bluetooth, thus the car phone itself doesn't require a separate SIM card. This is mostly for Europe.)

The part numbers for white MFD only (oldest to newest) are:
1z0 035 729 a (1z0035729a) (oldest)
1z0 035 729 d (1z0035729d) (newer, replaced by "c")
1z0 035 729 c (1z0035729c) (newer, replaced by "e")
1z0 035 729 e (1z0035729e) (works with 3gs, last version before they switched to 9w7).

The bluetooth antenna is external and is an additional part, VW# 8p0 035 503 e. Some kits include it. The external antenna is visible in the above picture.

Cars equipped with this only have one audio channel w/streaming bluetooth music so if you put in a 9w7 module you'll only get audio out of the right speaker. You can fix this by adding your own wire from the bluetooth module to the radio.

9w7 bluetooth from Golf, Jetta sedan, Sportwagen, or Golf wagon TDI

These are like 9w3 but with A2dp bluetooth streaming music capability and it can read typed phonebook entries. It is the new standard module for 2011 VW Sportwagen TDI and 2011 Golf TDI. If you shop around you should be able to buy it for about the same price as a 9w3 module. It's a direct swap for the older modules. It is confirmed to work fine with iphone OS4. Since it was introduced in 2010, it is not compatible with the 2009 and earlier red display MFD.

The bluetooth antenna is internal and inside the module box.

The current part number for 9w7 VW Bluetooth are 7p6 035 730 c (7p6035730c). For detailed installation instructions for 9w7, see 1000q: 9w7 bluetooth and 1000q: 9w7 install w/video.

If you swap from 9w3 (mono) to 9w7 (stereo), the streaming bluetooth will only play out the right side. To have stereo streaming bluetooth you have to add 2 wires from the radio to the bluetooth module. Full instructions are in the 1000q FAQ pages.

9wZ bluetooth module

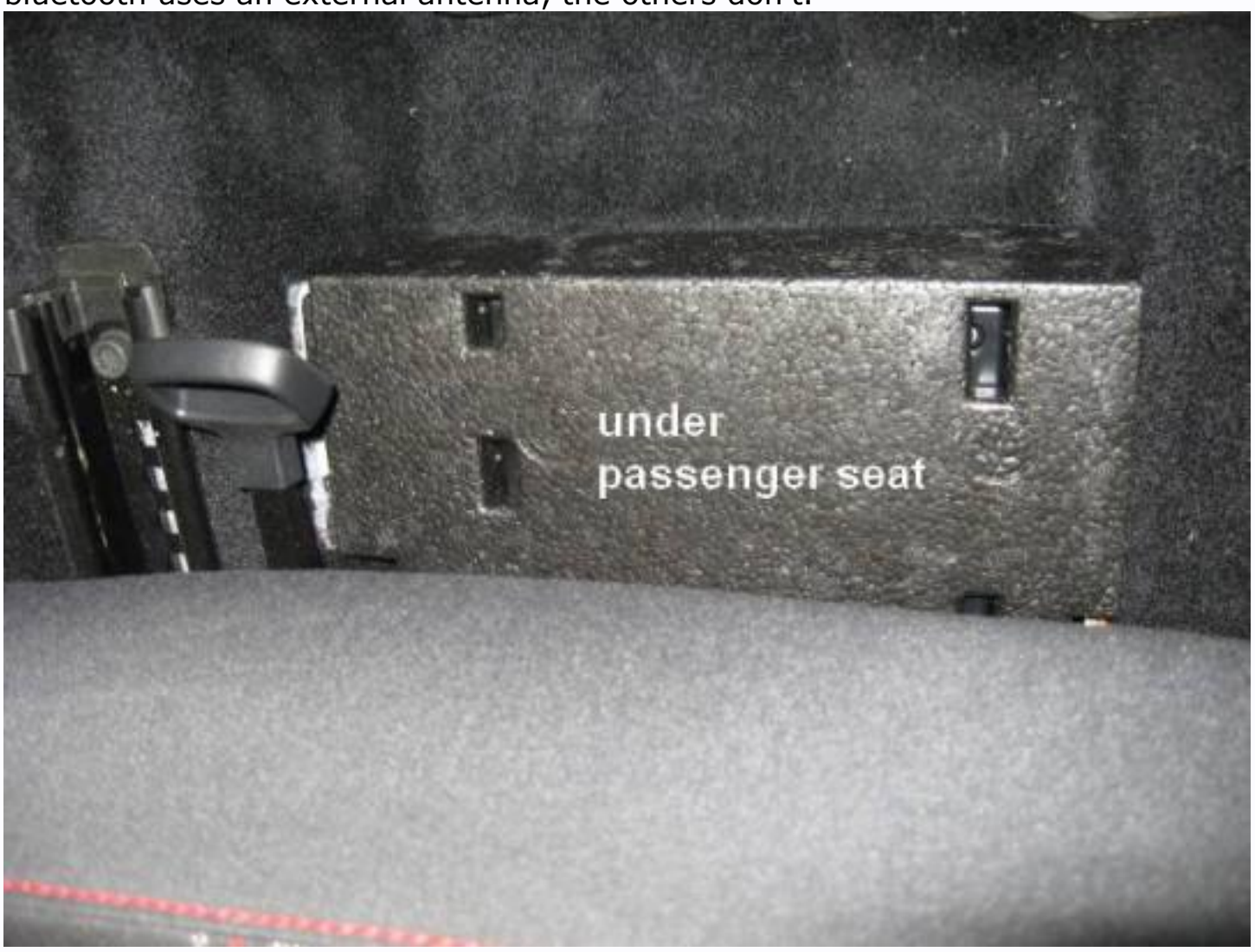
This is the current European module. The current VW part number is 3C8 035 730 a (3C8 035 730 A). It only works on white cluster cars. The difference vs. the North American 9w7 is Bluetooth 2.0 and rSAP (text messages). It does quad band 2g and 3g so it covers GSM bands used in North America. To make rSAP work you need to install the GSM antenna as well.

Bluetooth module location and retrofit for VW

Volk-L or other aftermarket modules are behind the radio and are dealer installed. All other modules are under the passenger seat. 9w3 had either carpeted covers (shown right) or plastic covers (shown above w/9w3 module). 9w3 is bolted in place with a metal bracket because it has an external antenna. 9w2 or 9w7 are in a foam box held with velcro and have internal antenna. If you have a 2009 wagon, your Sirius satellite radio is under the passenger seat under a hard plastic cover. All others without bluetooth have the sirius sat radio receiver in the trunk or are internal to the radio. Someone named aenea made a .pdf installation article which is mirrored for archiving here: VW bluetooth retrofit .pdf procedure, a clickable thumbnail picture is also below.

The 9w3 module is a slightly different size vs. 9w2/9w3 so if you swap them the foam box that the 9w2 comes with has to be trimmed a little bit. 9w2/9w7 are the same size and are direct plug-play. You only need to change the module's code to suit your car's equipment level and to enable the voice control button on the steering wheel. This is done with a ross tech VCDS or dealer tool.

Here is a short installation procedure by someone named vwpartsman. For a longer detailed installation, see 1000q: 9w7 bluetooth module installation and features and 1000q: 9w7 installation w/video, article #2. Just unvelcro the foam box under the passenger seat, release the white plug lock, unplug the old module, and swap. Retrofit of the other modules are basically the same. 9w3 bluetooth uses an external antenna, the others don't.



The foam box is just held with velcro and connected with a single plug. A comparison of the OEM 9w2 and 9w7 VW bluetooth module.

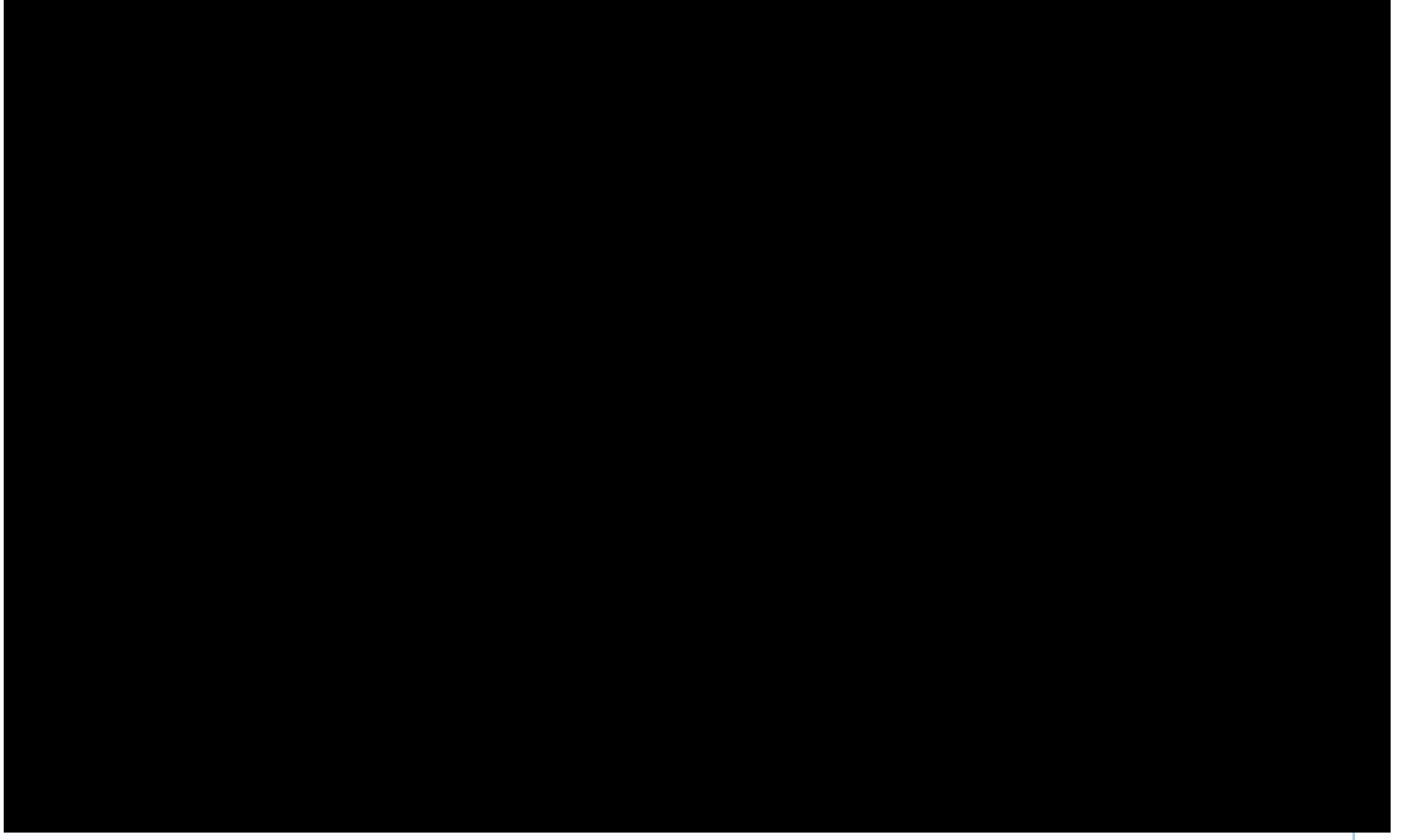
The device list will show the bluetooth icon, phone battery life, a small icon for the iphone, the cell phone carrier, and the device name.

With the RNS 510 GPS you can dial from touchscreen as the phone book or keypad. If your car has a MFSW, you can use the MFD menu to enter a new number. The RNS 315 GPS also has this capability but in a smaller screen.

As is, the module will work as plug-play. If you have a MFSW and the voice control button didn't work, you must change the coding with a VCDS to enable it. The sample codes are in 1000q: steering wheel swap and vary by equipment. The module will work fine without changing the code - this just enables the push to talk button on the steering wheel. For all 2010 (or steering wheel component # higher than 0110), here are some sample codes for reference.
0001831 (automatic trans, no rear wiper)
0000731 (manual trans, no rear wiper)
0001832 (automatic trans, rear wiper)
0000732 (manual trans, rear wiper)

Note: you can only change the code after installing the new module. I tried changing the code for someone who was going to add a 9w7 later and it caused the 9w2 bluetooth to not connect. To restore bluetooth function I just changed the code back.

If you're worried about the difficulty of swapping it, below is a video showing how easy they are to swap.



9w2 VW bluetooth setup and use

2009 TDI with 9w2 with the red MFD should use part number VW# 1z0 035 729a. 2010 and newer TDI with 9w2 and the white MFD 2010 and newer should use part number VW# 1z0 035 729 c and code 0011070. Others have reported 1k8 035 730 c.
While you can't have voice dialing or a phone book menu in the MFD, if your phone has voice dialing you could open the Bluetooth and dial from the phone.

If your car came with 9w2 and the overhead bluetooth console, you lose its function if you install 9w3. 9w7 keeps the overhead bluetooth buttons active.

Initial Setup – "Pairing"
1. Switch on the customer's Bluetooth-enabled cellular phone and the vehicle's ignition. (This makes the Bluetooth "visible." You must pair the system and phone within the five minutes it remains visible.)
2. Activate the Bluetooth feature in the phone and initiate a search for Bluetooth devices or audio enhancements.
3. Select 'VW UHV'
4. Enter the Bluetooth pass code '0000' on the phone. (On some phones, you will need to confirm the connection separately.)
5. Optional: To allow the phone and Bluetooth to connect automatically, set the Bluetooth system as an "authorized device" in the phone's Bluetooth menu.
6. The Bluetooth system is now paired with the phone and ready for use. The pass code is not needed to connect the devices again.
Please see the user guides of the Bluetooth system and your mobile phone for more detailed descriptions.

Place a Call
1. To place a call, enter the number on your phone, or find the contact in your phone's phonebook.
2. Press the green call button on your phone. The phone will immediately "ring" through the Volkswagen sound system.

Answer a Call
1. When connected to the Bluetooth system, an incoming call will mute the car radio and the ringtone will sound over the car speakers (if enabled).
2. To answer the call, press once on the phone button. You can now speak hands-free in your car and hear your call over your car speakers.

Ignore a Call

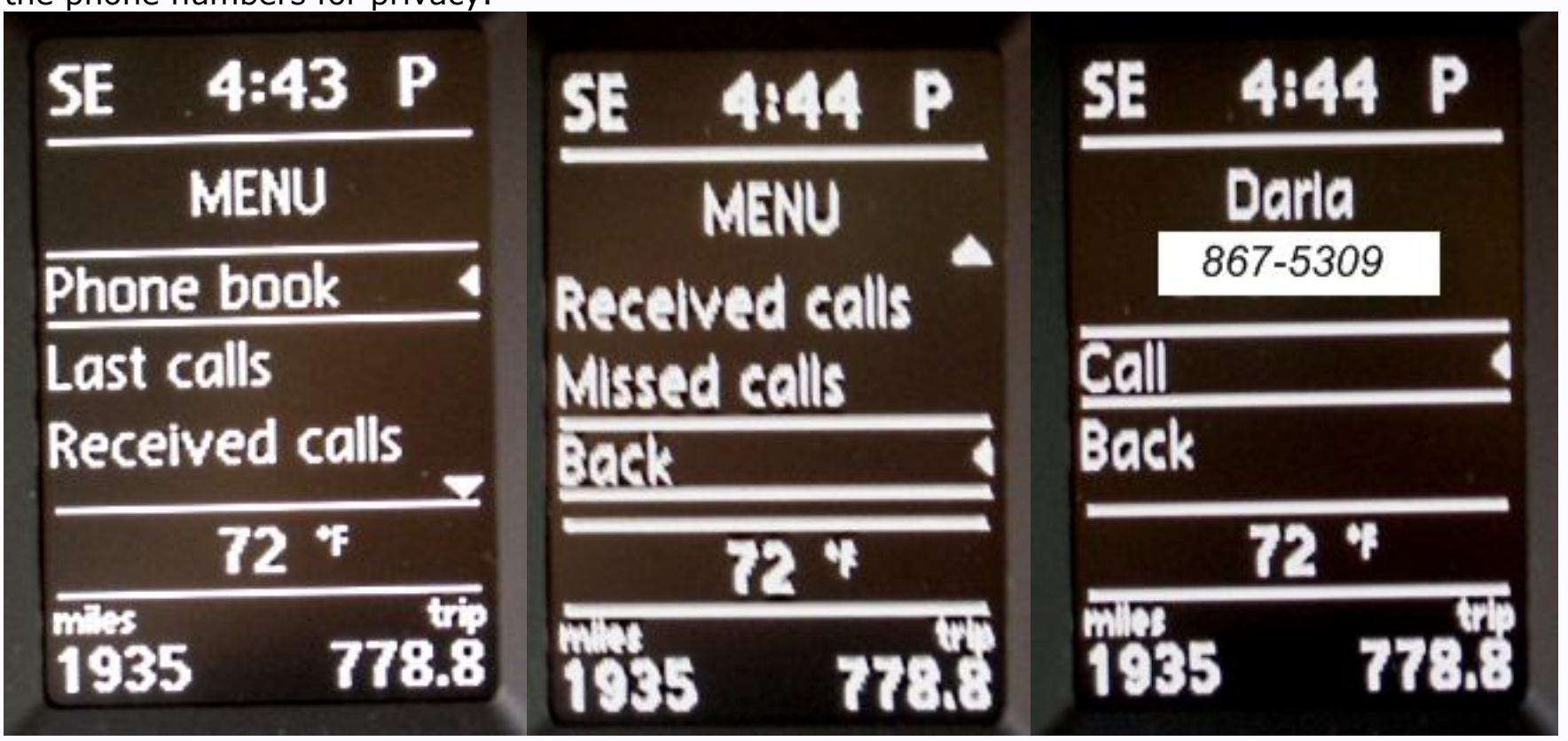
To ignore an incoming call, press and hold the phone button for more than 2 seconds.

End a Call
To end a call, press the phone button once.

Switch to Private Mode
To switch to private mode during a call, press and hold the phone button for more than 2 seconds. If the phone supports “Advanced Audio Distribution Profile” (A2DP), music stored on the phone can be played over the radio or radio navigation system through the car speakers.
1. On the cell phone, select the music playback mode (such as “play via Bluetooth”), then select the device “VW UHV.”
2. Press the button on the radio or radio navigation system to select the media menu.
3. On the phone’s music menu, select the desired songs/playlist and press “play.” The music will begin The music plays on the Volkswagen sound system. When receiving an incoming call or placing a call, the music will pause and the phone call audio will be heard over the car speakers. When the call ends, the music will restart.

9w3 VW bluetooth setup and use

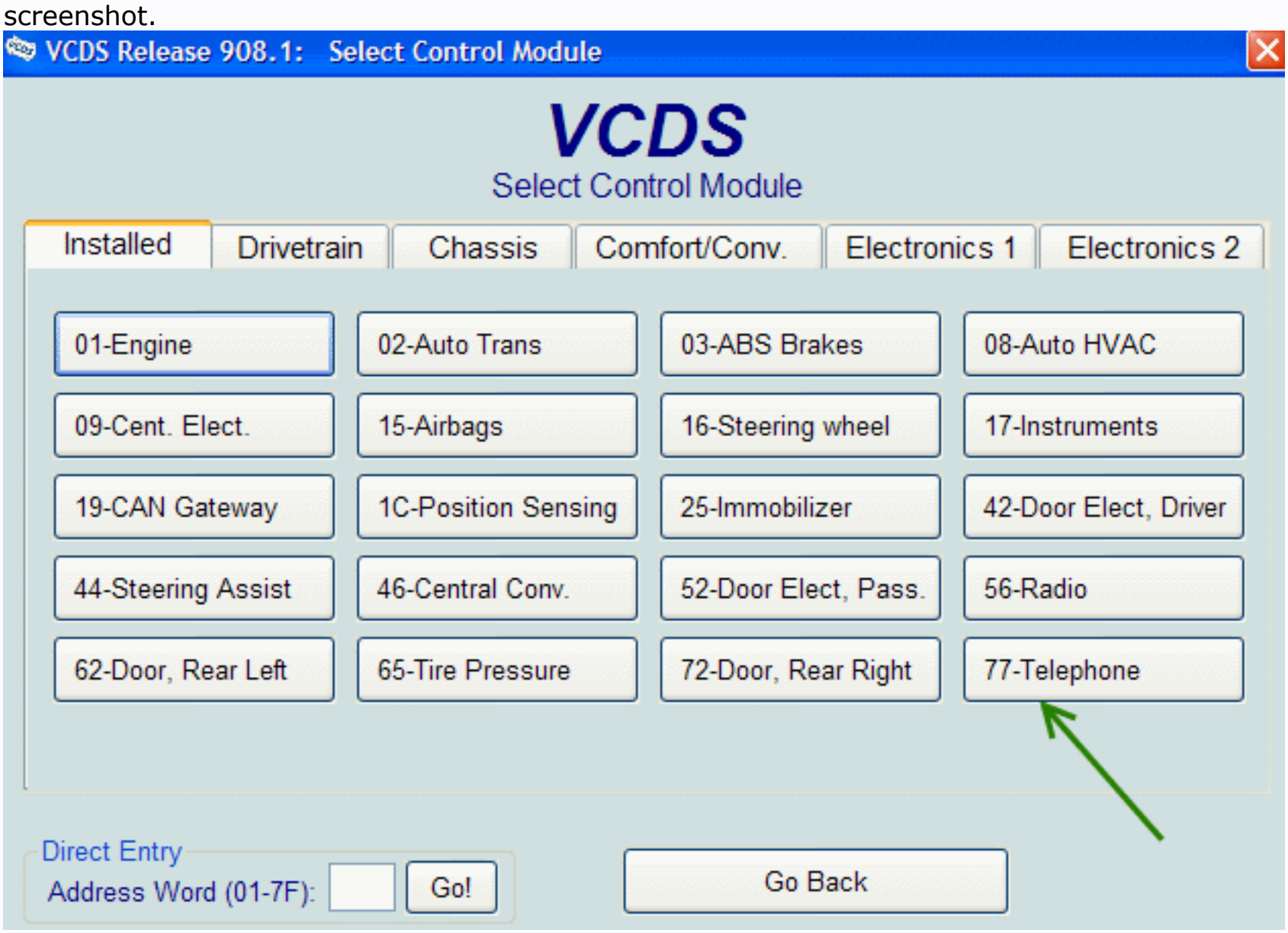
This bluetooth can download your mobile phone's phone book, make outgoing calls, has voice control, and display the phone book in the MFD+ (the multifunction display on the instrument cluster), and be controlled with the buttons on the MFSW (multifunction steering wheel). If you have RNS 510 GPS navigation or a European RCD-510 touchscreen radio (not a North American RCD-510 touchscreen radio), 9w3 bluetooth also displays the phone book on the touchscreen display for dialing from the touchscreen. Here is an illustration of what it the MFD+ phone book menu looks like. Once you select a name in the phone book you select "Call" to dial. I've removed the phone numbers for privacy.

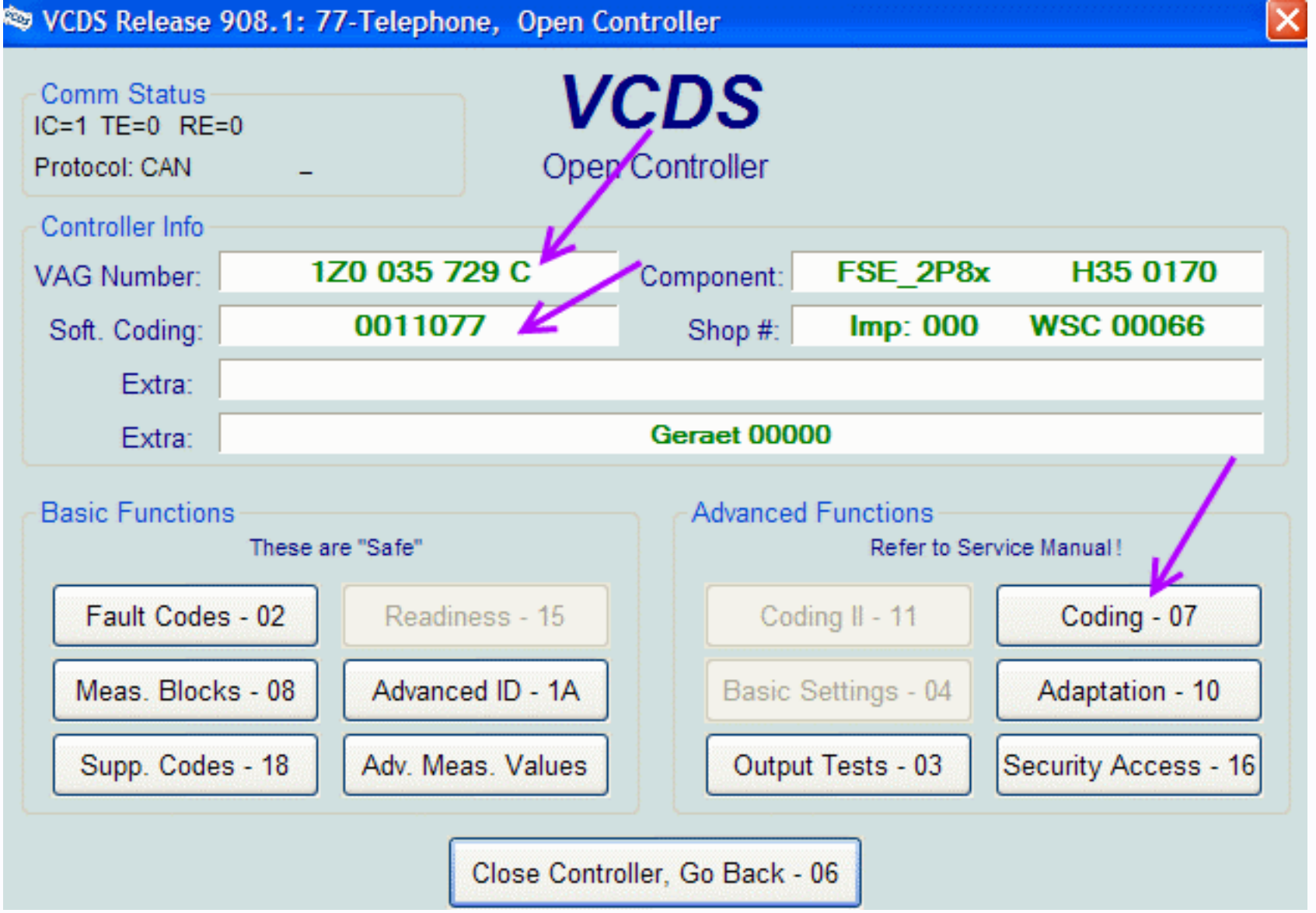


To activate phone command of the bluetooth, press the button on the left with a picture of a microphone. The left up and down buttons can raise or lower call volume.

The part number for 9w7 for early cars up to 2009 with a red MFD may be VW# . The part number for late cars 2010 and newer with a white MFD is VW# 1z0 035 729 c. Others have reported 1z0 035 729 d. There may be newer modules with other part numbers.

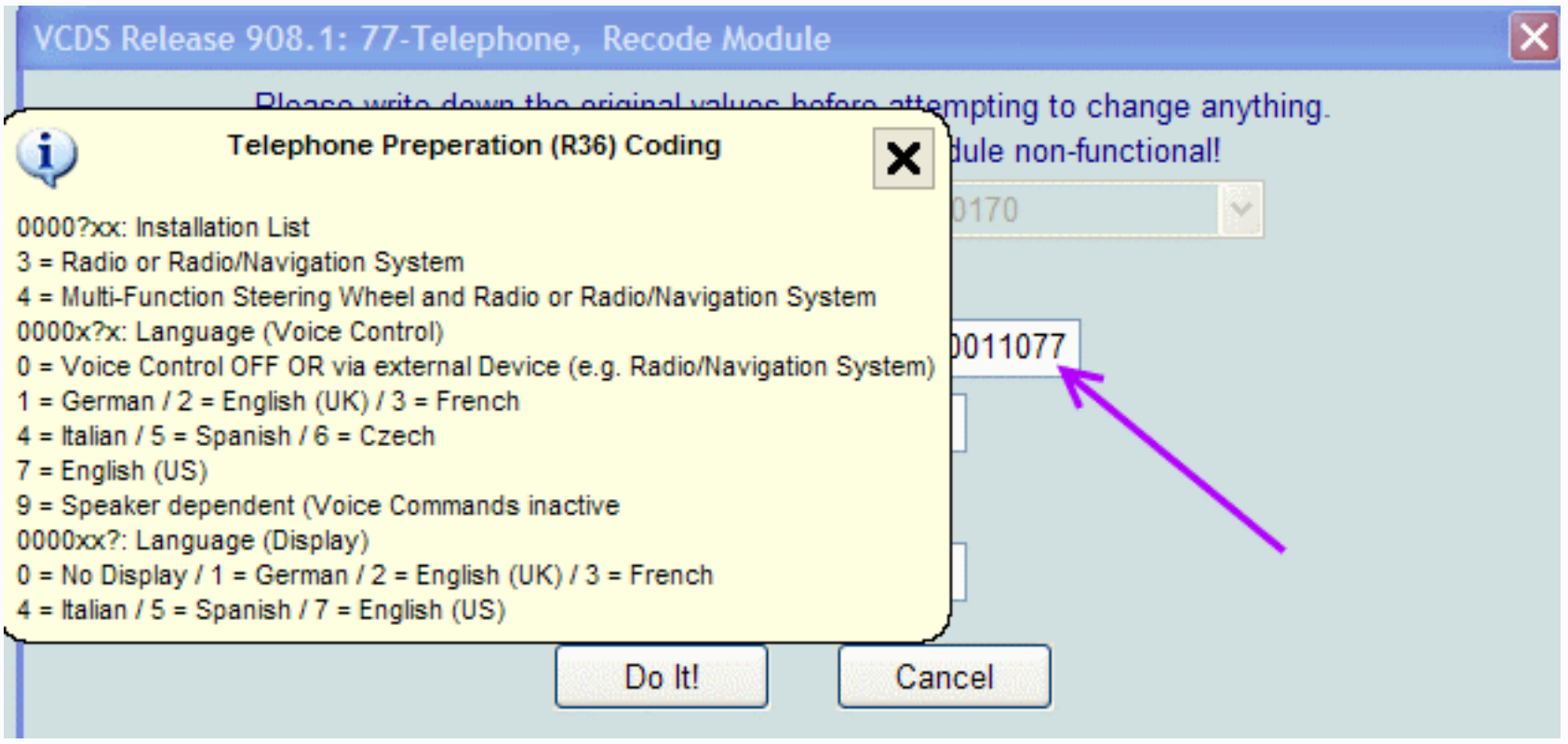
2010 VW Jetta sedan bluetooth modules were not coded to activate the MFD+ screen from the factory. (Please use the donation button at the top if you wish to support this site!) If you can't access the phonebook menu in the MFD+, have the dealer activate it or use the Ross tech VCDS cable and software to DIY. Plug in the VCDS cable into your OBD2 port and start the software. Click on "77- Telephone". Click on "Coding - 07". Also note the VAG Number. This is the part number of the module. Note the original "Soft coding" code number and write it down somewhere or save a screenshot.





If you have the part number and code shown here this setting is well documented. If you don't have this part number and code, write down the original number and keep it safe until your module is working as intended.

Simply change the code (purple arrow below under the popup helper menu) from 0011077 to 0000477 if you do not have the RNS 510 GPS system. If you have the RNS 510 GPS navigation, change the code to 0010477 and it will display the phone book on the GPS display as well for dialing from the radio. (for more information on the RNS 510 GPS system, see 1000q: RNS 510 FAQ.) European RCD 510 touchscreen radios can display the phone book in the radio. North American RCD 510 touchscreen radios cannot.


VCDS Release 908.1: 77-Telephone, Recode Module
Please write down the original values before attempting to change anything.
dule non-functional!
0170
0011077
Telephone Preperation (R36) Coding
0000?xx: Installation List
3 = Radio or Radio/Navigation System
4 = Multi-Function Steering Wheel and Radio or Radio/Navigation System
0000x?x: Language (Voice Control)
0 = Voice Control OFF OR via external Device (e.g. Radio/Navigation System)
1 = German / 2 = English (UK) / 3 = French
4 = Italian / 5 = Spanish / 6 = Czech
7 = English (US)
9 = Speaker dependent (Voice Commands inactive
0000xx?: Language (Display)
0 = No Display / 1 = German / 2 = English (UK) / 3 = French
4 = Italian / 5 = Spanish / 7 = English (US)
Do It!
Cancel

If you have the RNS 510, hold the left/right buttons and day/night buttons to reset the RNS to recognize the change. If you have a 2009, most have not gotten this function to work when equipped with 9w3.

Initial Setup – "Pairing"
1. Switch on the customer's Bluetooth-enabled cellular phone and the vehicle's ignition. (This makes the Bluetooth "visible." You must pair the system andphone within the five minutes it remains

visible.)
2. Activate the Bluetooth feature in the phone and initiate a search for Bluetooth devices or audio enhancements.
3. Select 'VW UHV'
4. Enter the Bluetooth pass code '0000' on the phone. (On some phones, you will need to confirm the connection separately.)
5. Optional: To allow the phone and Bluetooth to connect automatically, set the Bluetooth system as an "authorized device" in the phone's Bluetooth menu.
6. The Bluetooth system is now paired with the phone and ready for use. The pass code is not needed to connect the devices again.
For more detailed descriptions, please see the user guides of the Bluetooth system and cellular phone.

Place a Call
1. To place a call, press and hold the "star" button until you hear the beep.
2. Release the button and speak the command "dial number."
3. When the system says "number please," speak the number clearly and slowly, one digit at a time.
4. To quit before the call is completed, press the "phone" button on your steering wheel
You can also place a call by speaking the name, if it has been stored in the Bluetooth phonebook along with the number. See the Bluetooth user's manual for more details.

Redial
1. To redial the last number you called, start by pressing and holding the "star" button until you hear the beep
2. Then release the "star" button and say "redial." The last number you dialed will be automatically dialed.

Answer a Call
When connected to the Bluetooth system, an incoming call will mute the car radio and the ringtone will sound over the car speakers (if enabled). The number will display on the navigation system screen; if the number is in the phonebook, the name will also display.

To answer the call, press once on the steering wheel phone button.

Ignore a Call
When connected to the Bluetooth system, an incoming call will mute the car radio and the ringtone will sound over the car speakers (if enabled). The number will display on the navigation system screen; if the number is in the phonebook, the name will also display. To ignore the call without answering, press and hold the phone button for more than 2 seconds.

End a Call
To end a call, press once on the steering wheel phone button.

Switch to Private Mode
To switch to private mode during a call, press and hold the phone button for more than 2 seconds.

Play Phone Book
1. To play all the names stored in the vehicle's phone book, press and hold the "star" button until you hear the beep.
2. Release the button and speak the command "Play phone book." The system will read the list of names stored in thephone book.

Store Name and Number
The Bluetooth phone book can store up to 50 entries.
1. To store a number, press and hold the "star" button until you hear the beep.
2. Release the button and speak the command "Store Name."
3. The system will ask you for the name and the number.
4. Speak the name, then say "store name."
5. Speak the number clearly and slowly, one digit at a time, then say "store number."
You can also do this using the controls on the Radio Navigation system. See the Bluetooth user's manual for more details.

Select Name
1. To select a stored name and number from the Bluetooth phone book, press and hold the "star"

button until you hear the beep.
2. Release the button and speak the command “Select name.”
3. The system will say “Name please.”
4. Speak the name (as stored in the phone book), then say the command “Call.”
5. The system will say “The number is being dialed.” Delete Name

Delete a Name
1. To delete a name from your Bluetooth phone book, press and hold the “star” button until you hear the beep.
2. Release the button and speak the command “Delete name.”
3. The system will ask “Name please.”
4. Speak the name (as stored in the phone book). The name will be deleted from the phone book.

9w7 bluetooth modules

For detailed installation procedure and features, see 1000q: 9w7 bluetooth FAQ and 1000q: 9w7 retrofit video..

RNS315 internal bluetooth module

If your car came from the factory with the RNS315 navigation, it has internal bluetooth and your car will not have a separate bluetooth module. If you wish to change the radio and keep OEM bluetooth functions, you have to add the 9w7 module with a retrofit kit and change the coding so the car knows what was changed. You car will also not have a separate compass module so you'll lose the compass screen on the MFD unless you install the RNS510 navigation or retrofit the compass module.

The RNS510 does not have an internal bluetooth module.

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